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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	6 set /100 -150 cum	1116	12	12

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 19-05-22

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	21-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 23-04-22

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-05-30-21** **Date: 23-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1215	1215	8.1	91.9	90-100
3	20 mm	5320	6535	43.6	56.4	30-70
4	10 mm	6255	12790	85.3	14.7	10-35
5	4.75 mm	1637	14427	96.2	3.8	0-5
6	Pan	573	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-30-21** **Date: 23-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.21	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-05-30-21 **Date: 22-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	429	429	8.6	91.4	90-100
3	10 mm	2435	2864	57.3	42.7	25-55
4	4.75 mm	1833	4697	93.9	6.1	0-10
5	Pan	303	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-05-30-21 Date: 22-04-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.0	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 22-04-22

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-04-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	127	152	15.2	84.8	60-95	75-100	85-100	95-100
4	1.18 mm	275	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	137	564	56.4	43.6	15-34	35-59	60-79	80-100
6	300 micron	189	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	154	907	90.7	9.3	0-10	0-10	0-10	0-15
8	Pan	93	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-05-30-21**

Date: 22-04-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.7	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-05-30-21** **Date: 21-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	20-04-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 06-05-22

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-22
Sample Type /Size	:	Precast Cover Slab-100mm
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	02/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF PRECAST COVER SLAB

Date: 06-05-22

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-22
Sample Type /Size	:	Precast Cover Slab-230mm
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	02/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.69	230.42	3.116	17831	400.5	22.5	20.9	26.1
2	Cover Slab-2	150.63	230.51	3.122	17817	410.5	23.0	21.4	26.8
3	Cover Slab-3	150.89	230.54	3.118	17878	420.5	23.5	21.9	27.3

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B KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	27/04/2022	04/05/2022	149.52 X 149.75 X 149.27	22391	8.283	417.3	18.6	18.6
2	Drain Bottom Raft	M20	27/04/2022	04/05/2022	150.15 X 150.61 X 149.65	22613	8.422	423.7	18.7	
3	Drain Bottom Raft	M20	27/04/2022	04/05/2022	149.71 X 149.55 X 150.51	22390	8.815	414.9	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	27/04/2022	25/05/2022	151.42 X 149.28 X 149.22	22604	8.413	526.8	23.3	23.2
2	Drain Bottom Raft	M20	27/04/2022	25/05/2022	150.67 X 149.48 X 151.60	22523	8.194	512.9	22.8	
3	Drain Bottom Raft	M20	27/04/2022	25/05/2022	149.43 X 151.27 X 149.89	22605	8.624	528.4	23.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	27/04/2022	04/05/2022	149.22 X 150.08 X 151.45	22395	8.575	419.2	18.7	18.6
2	Drain Bottom Raft	M20	27/04/2022	04/05/2022	149.03 X 150.47 X 151.56	22425	8.797	411.0	18.3	
3	Drain Bottom Raft	M20	27/04/2022	04/05/2022	151.47 X 149.33 X 149.23	22618	8.731	424.2	18.8	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	27/04/2022	25/05/2022	150.65 X 149.32 X 149.31	22495	8.434	531.5	23.6	23.1
2	Drain Bottom Raft	M20	27/04/2022	25/05/2022	150.17 X 151.39 X 150.11	22733	8.844	503.1	22.1	
3	Drain Bottom Raft	M20	27/04/2022	25/05/2022	151.07 X 150.13 X 149.79	22680	8.590	530.6	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	27/04/2022	04/05/2022	151.23 X 149.03 X 149.61	22538	8.359	419.4	18.6	18.6
2	Drain Bottom Raft	M20	27/04/2022	04/05/2022	150.50 X 150.29 X 150.43	22620	8.948	412.8	18.2	
3	Drain Bottom Raft	M20	27/04/2022	04/05/2022	151.31 X 150.44 X 149.97	22763	8.351	431.4	19.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	27/04/2022	25/05/2022	151.57 X 150.22 X 150.44	22769	9.067	527.0	23.1	22.9
2	Drain Bottom Raft	M20	27/04/2022	25/05/2022	149.83 X 150.97 X 150.04	22620	8.418	498.5	22.0	
3	Drain Bottom Raft	M20	27/04/2022	25/05/2022	150.63 X 149.06 X 151.31	22454	8.518	528.1	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/04/2022	05/05/2022	150.71 X 150.35 X 151.66	22660	8.848	422.3	18.6	18.6
2	Drain Side Wall	M20	28/04/2022	05/05/2022	151.76 X 151.33 X 150.52	22966	8.759	433.3	18.9	
3	Drain Side Wall	M20	28/04/2022	05/05/2022	150.50 X 150.92 X 149.48	22713	8.644	418.2	18.4	

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Format No: CP/TF/01

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/04/2022	26/05/2022	151.66 X 150.54 X 151.27	22830	9.060	547.2	24.0	23.2
2	Drain Side Wall	M20	28/04/2022	26/05/2022	150.09 X 149.07 X 149.13	22374	8.244	497.7	22.2	
3	Drain Side Wall	M20	28/04/2022	26/05/2022	149.45 X 149.65 X 150.55	22364	8.999	522.1	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/04/2022	05/05/2022	149.69 X 149.71 X 151.96	22411	8.621	411.2	18.3	18.3
2	Drain Side Wall	M20	28/04/2022	05/05/2022	149.25 X 151.12 X 150.98	22555	9.005	412.0	18.3	
3	Drain Side Wall	M20	28/04/2022	05/05/2022	149.66 X 151.69 X 150.10	22702	8.329	418.1	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/04/2022	26/05/2022	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	Drain Side Wall	M20	28/04/2022	26/05/2022	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Drain Side Wall	M20	28/04/2022	26/05/2022	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

• The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R EARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/04/2022	05/05/2022	151.90 X 151.74 X 150.61	23050	8.465	428.7	18.6	18.3
2	Drain Side Wall	M20	28/04/2022	05/05/2022	150.62 X 149.32 X 149.50	22490	8.331	408.1	18.1	
3	Drain Side Wall	M20	28/04/2022	05/05/2022	149.42 X 151.78 X 151.78	22680	8.731	408.7	18.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/05/2022

Lab ID	:	CP-2022-05-30-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts and Improvements to Drain at in Ward No.05 Byatarayanapura Sub Division
Agency	:	Sri.M A Krishna Kumar, No:962, 5th Main, 17th Cross, D Group Layout, Sree Gandhada Kavalu, Bangalore-91
Customer's Reference	:	BBMP/EE/BTP/WO/13/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	28/04/2022	26/05/2022	151.35 X 151.44 X 150.18	22921	9.010	528.3	23.1	22.9
2	Drain Side Wall	M20	28/04/2022	26/05/2022	150.13 X 150.94 X 150.58	22661	8.145	509.2	22.5	
3	Drain Side Wall	M20	28/04/2022	26/05/2022	149.91 X 149.02 X 149.20	22340	8.740	518.9	23.2	

* The results obtained are satisfactory as per standard requirements.

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